

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/672,726	09/25/2003	Sooyeul Lee	5882P047	9434	
8791	7590 04/19/2005		EXAMINER		
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030			CHURCH,	CHURCH, CRAIG E	
			ART UNIT	PAPER NUMBER	
			2882		
			DATE MAILED: 04/19/2005	DATE MAILED: 04/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

d)
V

	Application No.	Applicant(s)				
	10/672,726	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Craig E. Church	2882				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was reply reply reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_·					
2a) ☐ This action is FINAL . 2b) ☒ This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1,4,7 and 10 is/are rejected. 7) Claim(s) 2,3,5,6,8,9,11 and 12 is/are objected is 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex	,	, ,				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)		•				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/25/03, 3/21/05. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1 and 7 are rejected under 35 U.S.C. 102(A) as being anticipated by Lee et al (6377653). Lee teaches a method of calibrating bone density index for different radiographing conditions (abstract) comprising the steps:

- 1. preparing an x-ray image by radiographing a bone and a phantom (sawtooth) together
- 2. attaining bone density indexes from the x-ray image of the bone and phantom
- 3. calibrating the bone index with the index of the phantom

(lines 49-54 of column 2). This is done multiple times for various radiographing conditions (lines 6-12 of column 1). Step 2 comprises gray scale analysis of the x-ray images (lines 23-45 of column 4), and lines 6-15 of column 5 teach that the method may be embodied as a computer program.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee as above. Lee does not mention the composition of his phantom, but it would have been obvious to emply therefore a material (such as acrylic, styrene etc) whose x-ray

absorption was close to that of bone so as to limit the dynamic range required for imaging.

Claims 2, 3, 5, 6, 8, 9, 11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication should be directed to Examiner Church at telephone number (571) 272-2488.

Crong & Church

Craig E. Church Senior Examiner Art Unit 2882